

FIG 4

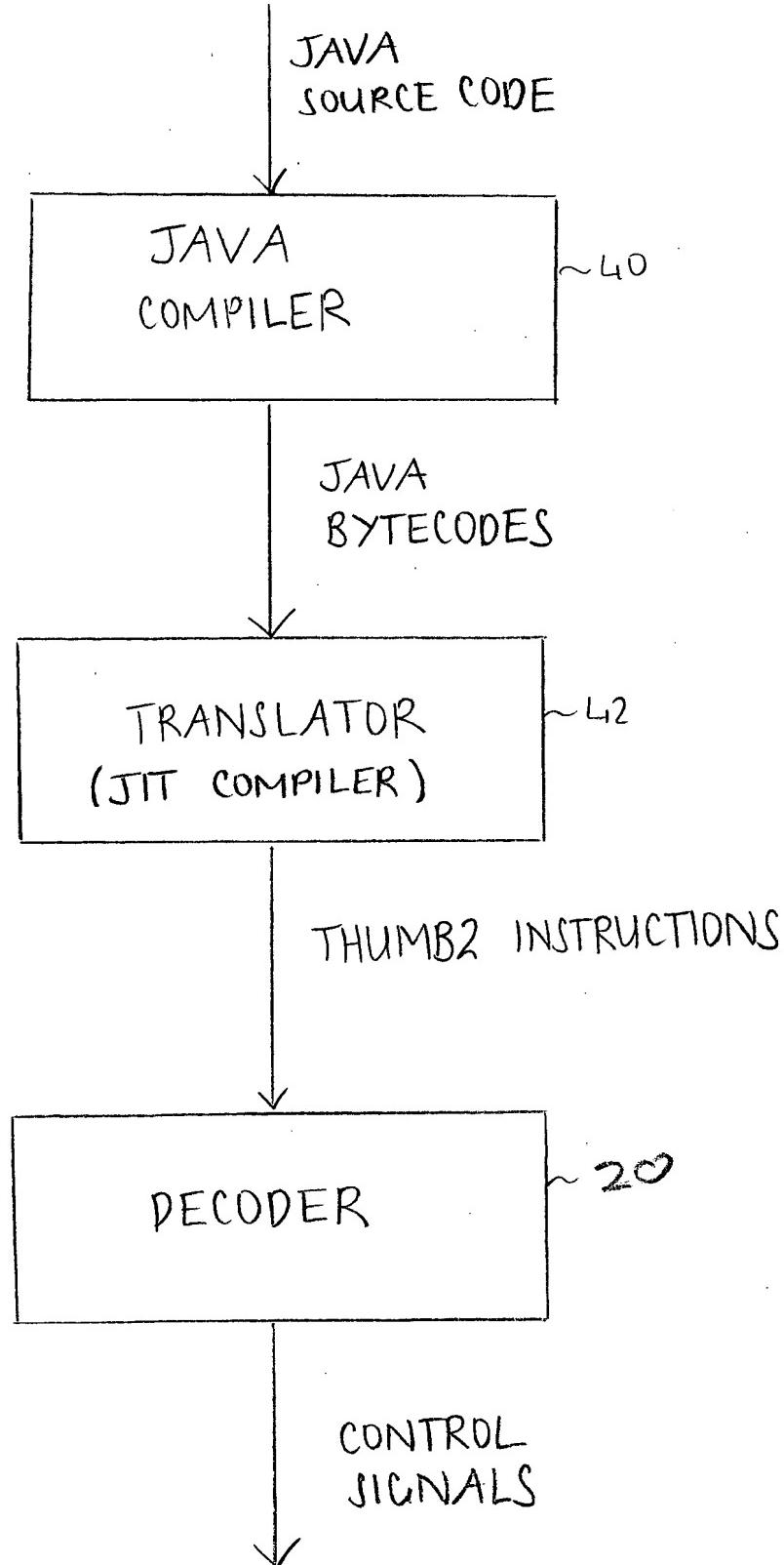
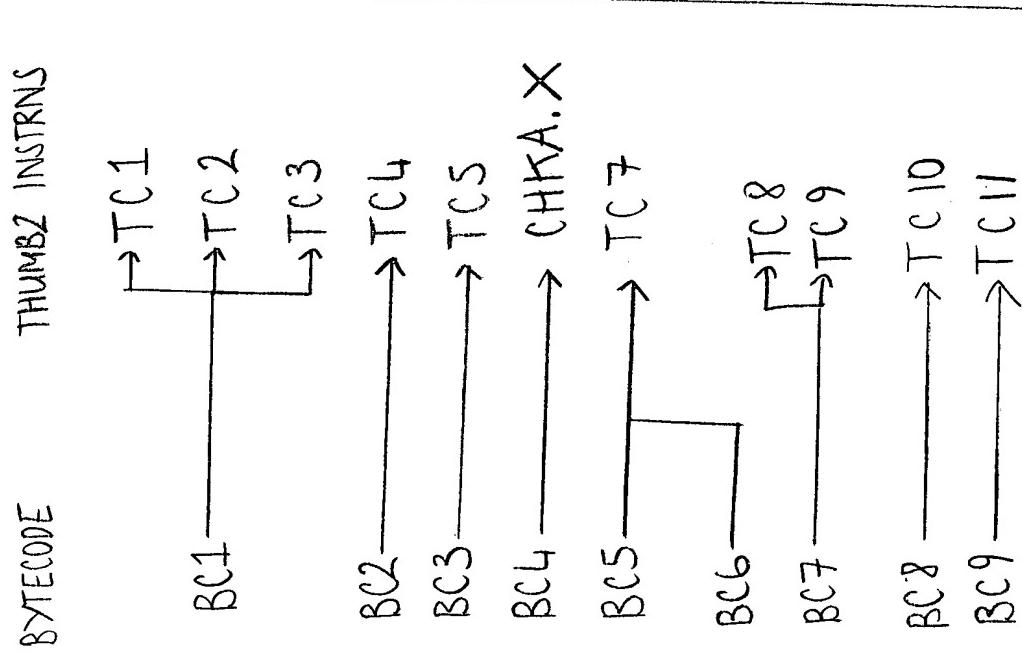


FIG 2



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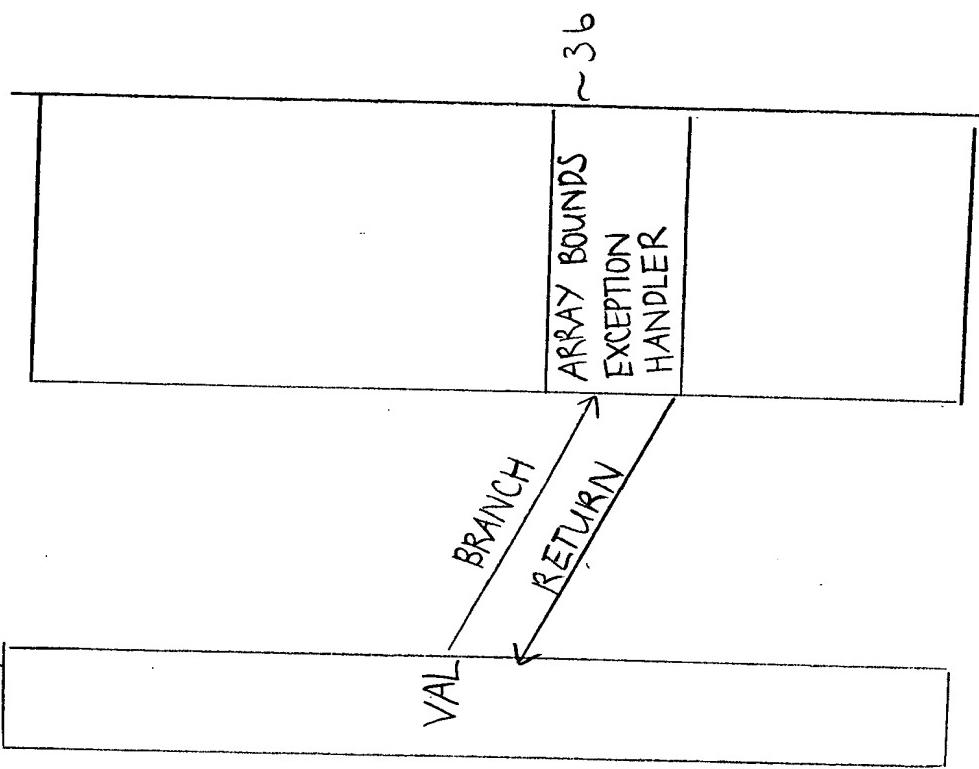


Fig 3

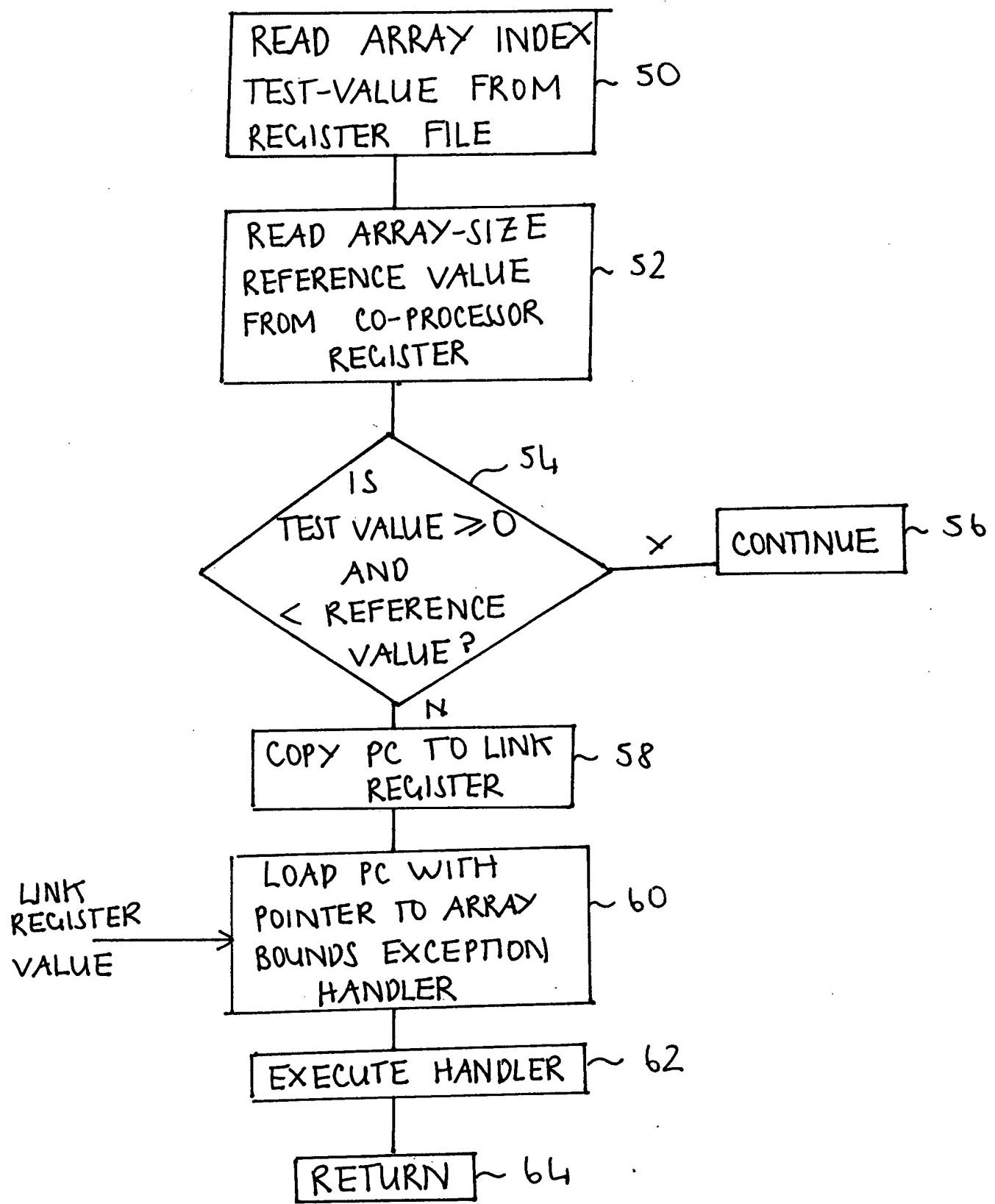


FIG 4

Instruction	CHKA .X	Rn, Rm (16-bit)	
Encoding	15 14 13 12 11 10 9 8 7 6 5 3 2 0		
Thumb-2 Equivalent	< op code >	H1 H2 Rm Rn	
	CMP Rn, Rm		
	MOV Ls 1r, pc		
	ADD Ls pc, HandlerBase, # -8		
Definition	IF (unsigned) Rm >= (unsigned) Rn. 1r = pc pc = HandlerBase, # -8 ; IndexException		
Encoding space	2^{48}	8 bits	
Note	This is based upon the CMP(3) 16-bit Thumb-2 instruction that can use high registers		
Note	H1 contains the most significant bit for Rn, H2 the most significant bit for Rm		
Note	The Ls case should almost never occur, so can be treated as exceptional behaviour		
Note	This instruction does not set condition flags		
Note	This comparison is UNSIGNED		
Note	Return stack prediction will not be required when the MOV 1r, pc step is executed.		

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